

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: J.M. Ford Examiner #: 5986 Date: 3/19/03
 Art Unit: 1624 Phone Number 308-4721 Serial Number: 09/220 892
 Mail Box and Bldg/Room Location: CM1-4E12 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

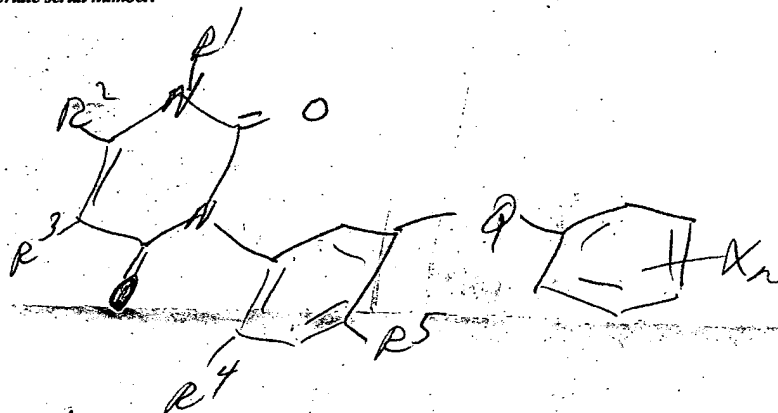
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Dracids

Inventors (please provide full names): Andre

Earliest Priority Filing Date: July 2, 1999

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

**STAFF USE ONLY****Type of Search****Vendors and cost where applicable**

Searcher: <u>Shippard</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>308-4499</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>3/20/03</u>	Litigation _____	Lexis/Nexis _____
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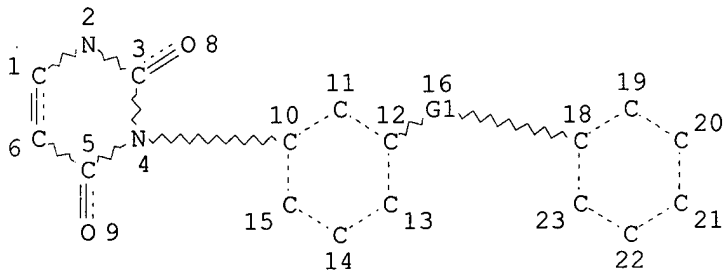
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FILE COVERS 1907 - 20 Mar 2003 VOL 138 ISS 12
 FILE LAST UPDATED: 19 Mar 2003 (20030319/ED)

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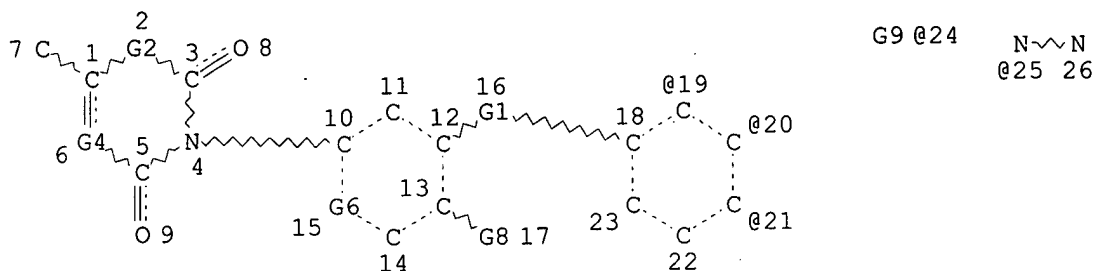
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VAR G1=O/S/N
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE
 L9 380 SEA FILE=REGISTRY SSS FUL L7
 L10 STR



N~G3 C~G5 C~G7 O~C C=O
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VAR G3=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU
VAR G4=CH/29
VAR G5=X/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU
VAR G6=CH/31
VAR G7=X/C
VAR G8=X/C/33
VAR G9=OH/S/N/CN/35/33/C
VPA 24-19/20/21 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 36

STEREO ATTRIBUTES: NONE
L11 303 SEA FILE=REGISTRY SUB=L9 SSS FUL L10
L12 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L11

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L12 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:955421 HCAPLUS
DOCUMENT NUMBER: 138:39288
TITLE: Preparation of 1-methyl-3-(2-fluorophenyl)-1-methyl-6-trifluoromethyl-1,2,3,4-tetrahydropyrimidine-2,4-dione derivatives as defoliants (foliar withering agents)
INVENTOR(S): Mito, Nobuaki
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002363170	A2	20021218	JP 2001-169271	20010605

PRIORITY APPLN. INFO.:

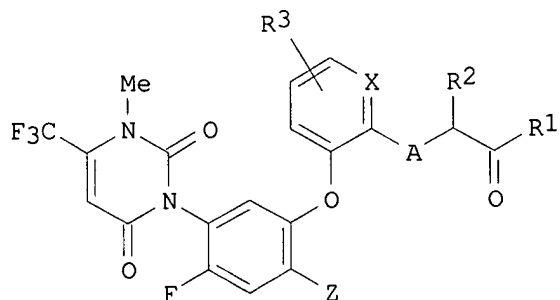
JP 2001-169271

20010605

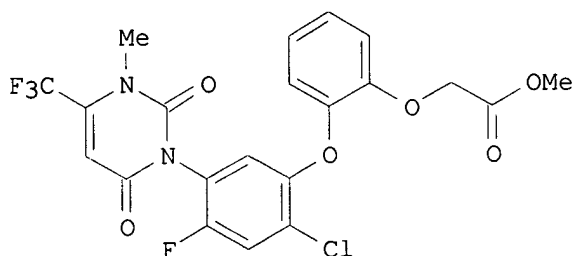
OTHER SOURCE(S):

MARPAT 138:39288

GI



I



II

AB Foliar withering agents for plans and crops contg. the title compds. [I; X = CH, N; Z = halo; R1 = HO, C1-7 alkoxy, C3-7 alkenyloxy, C3-7 alkynyloxy, C5-7 cycloalkoxy, (C1-3 alkoxy)carbonyl-C1-3 alkoxy, C1-7 alkylaminoxy, di(C1-7 alkyl)aminoxy, C3-7 alkylideneaminoxy, C1-7 alkylamino, di(C1-7 alkyl)amino, C3-7 alkenylamino, C3-7 alkynylamino, C5-7 cycloalkylamino, (C1-7 alkoxy)carbonyl-C1-3 alkylamino, C1-7 alkoxyamino; R2 = H, Me; R3 = H, halo, C1-3 alkyl, C1-3 alkoxy] as the active ingredients are disclosed. The above plants and crops are selected from potato, sunflower, soy bean, rape (Brassica campestris), and sorghum. These compds. are applied to the above crops before harvest time, which wither leaves and stems of the crops and makes the harvest of crops easier. Thus, 0.58 g MeI was added to a mixt. of 0.93 g [2-[2-chloro-4-fluoro-5-[2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetic acid Me ester, 0.31 g K2CO3, and 10 mL DMF and stirred at room temp. for 2 h to give [2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetic acid Me ester (II). II at 10 g/ha completely dried potato plants after 14 days.

IT 344419-95-0P 344419-97-2P 344419-98-3P

344419-99-4P 344420-01-5P 344420-04-8P

344420-05-9P 344420-07-1P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of methyl(2-fluorophenyl)methylfluoromethylhydropyrimidinedione derivs. as foliar withering agents for crops before harvest)

IT 344419-93-8P 344420-00-4P 344420-02-6P

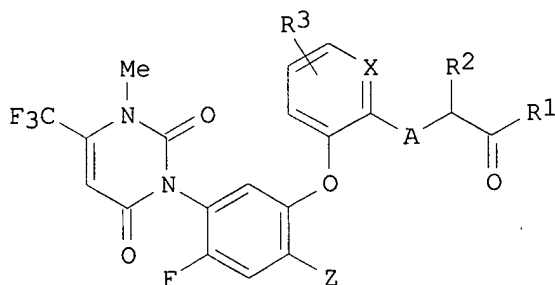
344420-09-3P 344420-46-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of methyl(2-fluorophenyl)methylfluoromethylhydropyrimidinedione derivs. as foliar withering agents for crops before harvest)

L12 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2002:955382 HCAPLUS
 DOCUMENT NUMBER: 138:39287
 TITLE: Preparation of pyrimidinedione derivatives as plant growth regulator for Gossypium harvesting
 INVENTOR(S): Mito, Nobuaki
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002363010	A2	20021218	JP 2001-169270	20010605
PRIORITY APPLN. INFO.:			JP 2001-169270	20010605
OTHER SOURCE(S):		MARPAT 138:39287		
GI				



I

AB Title compds. I (X = CH, N; Z = halo; A = O, S, NH; R1 = OH, alkoxy, etc.; R2 = H, Me; R3 = H, halo, alkyl, alkoxy), useful as plant growth regulator for Gossypium harvesting by promoting defoliation and boll cleavage, are prep'd. Thus, methylation of Me [-{2-chloro-4-fluoro-5-[2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy}phenoxy]acetate with MeI in DMF in the presence of K2CO3 gave Me [-{2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy}phenoxy]acetate (II). II promoted defoliation and boll cleavage for Gossypium at 20 g/are.

IT 344419-95-0P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. of pyrimidinedione derivs. as plant growth regulator for Gossypium harvesting)

IT 344419-97-2P 344419-98-3P 344419-99-4P
 344420-01-5P 344420-04-8P 344420-05-9P
 344420-07-1P 477714-32-2P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of pyrimidinedione derivs. as plant growth regulator for Gossypium harvesting)

IT 344419-93-8P 344420-00-4P 344420-02-6P
 344420-09-3P 344420-46-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of pyrimidinedione derivs. as plant growth regulator for
Gossypium harvesting)

L12 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:946034 HCAPLUS
DOCUMENT NUMBER: 138:20911
TITLE: Tetrahydropyrimidines as stem/leaf desiccants
INVENTOR(S): Mito, Nobuaki
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 82 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

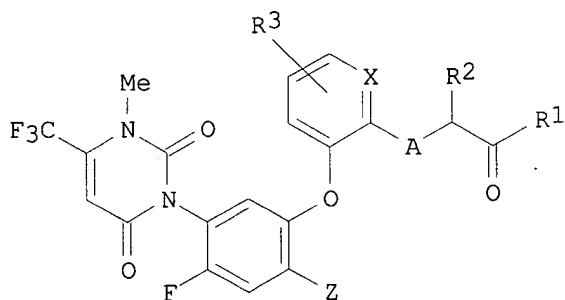
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002098228	A1	20021212	WO 2001-JP4631	20010531
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p> <p>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG</p>				

PRIORITY APPLN. INFO.:

WO 2001-JP4631 20010531

OTHER SOURCE(S): MARPAT 138:20911

GI



I

AB This document discloses a stem/leaf desiccant for crop plants which comprises as the active ingredient a compd. represented by the formula I [wherein X represents CH or nitrogen; Z represents halogeno; A represents oxygen, sulfur, or NH; R1 represents OH, [alkyl, alkenyl, alkynyl, cycloalkyl, (alkoxycarbonyl)alkyl, alkylamino, dialkylamino, or (alkylideneamino)]oxy, or [alkyl, dialkyl, alkenyl, alkynyl, cycloalkyl, (alkoxycarbonyl)alkyl, or alkoxy]amino; R2 represents hydrogen or CH3; and R3 represents hydrogen, halogeno, alkyl, or alkoxy]; and a method of drying crop plants or of harvesting crops with the desiccant. The bioeffects of I were demonstrated.

IT 344419-95-0P 344419-97-2P 344419-98-3P
344419-99-4P 344420-01-5P 344420-04-8P
344420-05-9P 344420-07-1P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of tetrahydropyrimidines as stem/leaf desiccants)

IT 344419-93-8P 344420-00-4P 344420-02-6P

344420-09-3P 344420-46-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of tetrahydropyrimidines as stem/leaf desiccants)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:946033 HCAPLUS

DOCUMENT NUMBER: 138:20910

TITLE: Preparation of 3-Methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidine derivatives as plant growth regulators for cotton

INVENTOR(S): Mito, Nobuaki

PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan

SOURCE: PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

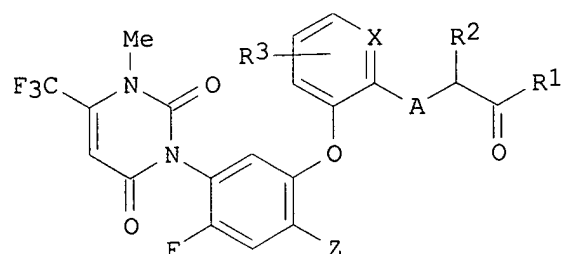
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002098227	A1	20021212	WO 2001-JP4584	20010531
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: WO 2001-JP4584 20010531

OTHER SOURCE(S): MARPAT 138:20910

GI



I

AB Plant growth regulators for cotton contg. as an active ingredient a compd. I (X = CH, or N; Z = halo; A = O, S, or NH; R1 = OH, C1-C7 alkoxy, C3-C7 alkenyloxy, C3-C7 alkynyloxy, C5-C7 cycloalkoxy, [di(C1-C7 alkoxy)carbonyl]C1-C3 alkoxy, (C1-C7 alkylamino)oxy, [di(C1-C7 alkyl)amino]oxy, (C3-C7 alkylideneamino)oxy, C1-C7 alkylamino, di(C1-C7 alkyl)amino, C3-C7 alkenylamino, C3-C7 alkynylamino, C5-C7 cycloalkylamino, [(C1-C7 alkoxy)carbonyl]C1-C3 alkylamino, or (C1-C7 alkoxy)amino; R2 = H, or Me; R3 = H, halo, C1-C3 alkyl, or C1-C3 alkoxy) are prepd.

IT 344420-00-4P, 2-[2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-

(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]propionic acid

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. as plant growth regulator for cotton)

IT 344419-95-0P, Methyl 2-[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]propionate 344419-97-2P, Ethyl 2-[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]propionate 344419-98-3P, Methyl[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetate 344419-99-4P, Ethyl[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetate 344420-01-5P, Pentyl 2-[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]propionate 344420-04-8P, Allyl[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetate 344420-05-9P 344420-07-1P, Isobutyl[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetate 344420-27-5P 344420-28-6P 380500-88-9P 380500-89-0P 380500-95-8P 380500-96-9P 380922-42-9P 382595-63-3P 382595-64-4P 384835-06-7P 384835-15-8P 477714-15-1P 477714-17-3P 477714-19-5P 477714-21-9P 477714-22-0P 477714-24-2P 477714-26-4P 477714-28-6P 477714-30-0P 477714-32-2P 477714-33-3P 477714-36-6P 477714-38-8P 477714-40-2P 477714-42-4P 477714-44-6P 477714-46-8P 477714-48-0P 477714-50-4P 477714-52-6P 477714-54-8P 477714-56-0P 477714-58-2P 477714-60-6P 477714-62-8P 477714-64-0P 477714-66-2P 477714-69-5P 477714-71-9P 477714-74-2P 477714-76-4P 477714-78-6P 477714-80-0P 477714-82-2P 477714-84-4P 477714-86-6P 477714-89-9P 477714-91-3P 477714-93-5P 477714-95-7P 477714-96-8P 477714-98-0P 477715-00-7P 477715-02-9P 477715-04-1P 477715-05-2P 477715-10-9P 477715-12-1P 477715-14-3P 477715-16-5P 477715-18-7P 477715-20-1P 477715-23-4P 477715-25-6P 477715-27-8P 477715-29-0P 477715-31-4P 477715-34-7P 477715-36-9P 477715-38-1P 477715-40-5P 477715-42-7P 477715-44-9P 477715-46-1P 477715-48-3P 477715-50-7P 477715-52-9P 477715-54-1P 477715-56-3P 477715-58-5P 477715-60-9P 477715-62-1P 477715-64-3P 477715-66-5P 477715-68-7P 477715-70-1P 477715-73-4P 477715-75-6P 477715-77-8P 477715-79-0P 477715-81-4P 477715-83-6P 477715-85-8P 477715-87-0P 477715-89-2P 477715-91-6P 477715-93-8P 477715-96-1P 477715-98-3P 477716-00-0P 477716-02-2P 477716-04-4P 477716-06-6P 477716-08-8P 477716-10-2P 477716-12-4P 477716-14-6P 477716-16-8P 477716-18-0P 477716-20-4P 477716-22-6P 477716-24-8P 477716-26-0P 477716-28-2P 477716-30-6P 477716-32-8P 477716-34-0P 477716-36-2P 477716-39-5P 477716-41-9P 477716-43-1P

477716-45-3P 477716-47-5P 477716-49-7P
 477716-51-1P 477716-53-3P 477716-55-5P
 477716-57-7P 477716-59-9P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. as plant growth regulator for cotton)

IT **344420-02-6P**, [2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetic acid

RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of tetrahydropyrimidine derivs. as plant growth regulators for cotton)

IT **344419-93-8**, 2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenol

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of tetrahydropyrimidine derivs. as plant growth regulators for cotton)

IT **344420-09-3P 344420-46-8P**, [[2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]methyl]benzene

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of tetrahydropyrimidine derivs. as plant growth regulators for cotton)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:595487 HCAPLUS

DOCUMENT NUMBER: 137:121071

TITLE: Synergistic herbicidal compositions containing acetanilide derivatives

INVENTOR(S): Crosby, Kevin E.; Schussler, Jeffrey R.; Haga, Takahiro

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 9 pp.

CODEN: USXXCO

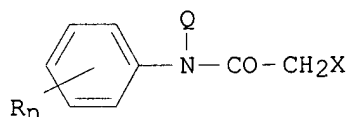
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002107148	A1	20020808	US 2000-729233	20001205
US 6455469	B2	20020924		
PRIORITY APPLN. INFO.:			US 2000-729233	20001205
OTHER SOURCE(S):		MARPAT 137:121071		
GI				



AB The title compns. contain least one substituted acetanilide deriv. I (n = 1 or 2; R = H, halo, C1-4 alkyl or C1-2 alkoxy; Q = cyanomethyl or

propargyl; X = halo) and at least one compd. selected from aryloxyalkanoic acids, arom. carboxylic acids, ureas, triazines, anilides, hydroxybenzonitriles, quaternary ammonium salts, triketones, aryloxyphenoxypropionic acids, oximes, sulfonylureas, imidazolinones, dinitroanilines, chloroacetanilides, oxyacetamides, thiocarbamates, amides, semicarbazones, amino acids, and inhibitors of protoporphyrinogen oxidase, that includes di-Ph ethers, substituted uracils, pyrazoles, triazolinones and triazolopyridinones.

IT 444169-29-3

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic herbicidal compn.)

L12 ANSWER 6 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:436701 HCAPLUS

DOCUMENT NUMBER: 137:20229

TITLE: Preparation of (aminoureido)crotonamides as intermediates for aminouracils

INVENTOR(S): Shimoharada, Hiroshi; Kishiro, Nobuko

PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

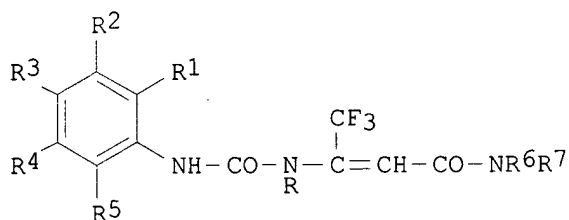
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002167374	A2	20020611	JP 2000-365424	20001130
PRIORITY APPLN. INFO.:			JP 2000-365424	20001130
OTHER SOURCE(S):			CASREACT 137:20229; MARPAT 137:20229	

GI



AB (aminoureido)crotonamides I [R = NH₂; R₁-R₅ = H, halo, cyano, (un)substituted alkyl, (un)substituted alkoxy, (un)substituted aryloxy, etc.; R₆, R₇ = alkyl; R₆R₇ may be alkylene], useful as intermediates for pesticides or drugs, are prepd. by amination of ureidocrotonamides I (R = H; R₁-R₇ = same as above). Thus, 3.54 g 3-[4-chloro-2-fluoro-5-(2-nitrophenoxy)phenyl]carbamoylamino]-4,4,4-trifluoro-N,N-dimethylcrotonamide was aminated by O-(2,4-dinitrophenyl)hydroxyamine in DMF in the presence of K₂CO₃ to give 2.45 g of the corresponding aminoureide deriv.

IT **213675-66-2P**, 1-Amino-3-[4-chloro-2-fluoro-5-(2-nitrophenoxy)phenyl]-6-(trifluoromethyl)-1,2,3,4-tetrahydropyrimidine-2,4-dione **213675-76-4P**, 1-Amino-3-[4-chloro-2-fluoro-5-(2-cyanophenoxy)phenyl]-6-(trifluoromethyl)-1,2,3,4-tetrahydropyrimidine-2,4-dione **213675-77-5P**, 1-Amino-3-[4-chloro-2-fluoro-5-(2-cyano-3-fluorophenoxy)phenyl]-6-(trifluoromethyl)-1,2,3,4-tetrahydropyrimidine-2,4-dione

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of (aminoureido)crotonamides as intermediates for aminouracils)

L12 ANSWER 7 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:23517 HCAPLUS

DOCUMENT NUMBER: 136:69821

TITLE: Preparation of uracils and their use as herbicides

INVENTOR(S): Goto, Tomohiko; Sanemitsu, Minoru

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 91 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

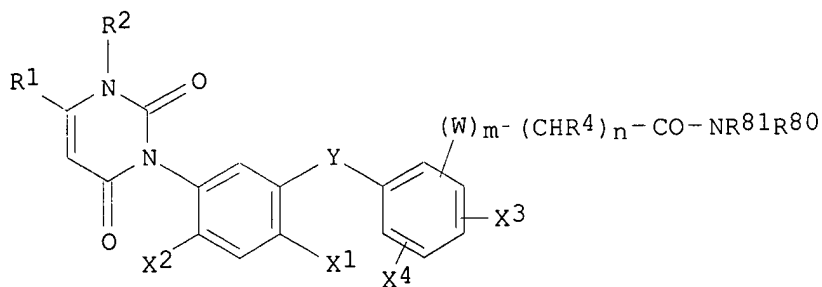
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002003480	A2	20020109	JP 2000-192353	20000627
PRIORITY APPLN. INFO.:			JP 2000-192353	20000627
OTHER SOURCE(S):		MARPAT 136:69821		

GI



AB Title compds. I (W = O, S, imino, Cl-contg. C3 alkylimino; Y = O, S, imino, C1-3 alkylimino; R1 = C1-3 alkyl, C1-3 haloalkyl; R2 = C1-3 alkyl; R4 = H, C1-3 alkyl; X1 = halo, cyano, NO2; X2 = H, halo; X3, X4 = H, halo, C1-6 alkyl, C1-6 haloalkyl, C3-6 alkenyl, etc.; m = 0-1; n = 0-2; R81 = H, C1-6 alkyl, C1-6 haloalkyl, C3-6 alkenyl, C3-6 haloalkenyl, etc.; R80 = H, C1-6 alkyl, C1-6 haloalkyl, C3-6 alkenyl, C3-6 haloalkenyl, etc.) are prepd. 2-[2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetic acid (2.0 g) was mixed with SOCl₂ in THF under reflux for 2 h 10 min and reacted with MeONH₂.HCl in the presence of Et₃N in THF at room temp. for 2 h to give 0.33 g N-methoxy-2-[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetic acid amide showing good herbicidal activity.

IT 384835-06-7P 384835-08-9P 384835-10-3P

384835-15-8P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of uracils and their use as herbicides)

IT 344419-93-8P, 2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenol 344419-95-0P, Methyl 2-[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]propionate 344419-98-3P, Methyl [2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetate 344420-00-4P, 2-[2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-

tetrahydropyrimidin-1-yl]phenoxy]phenoxy]propionic acid
344420-02-6P 344420-46-8P, [[2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]methyl]benzene **380500-93-6P**,
 2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]nitrobenzene **380500-94-7P**,
 2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]aniline **380500-95-8P**
380922-42-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of uracils and their use as herbicides)

L12 ANSWER 8 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:934012 HCAPLUS

DOCUMENT NUMBER: 136:53758

TITLE: Preparation of diaryl ethers as herbicides and desiccants

INVENTOR(S): Pulman, David A.; Ying, Bai-ping; Wu, Shao-yong; Gupta, Sandeep; Shimoharada, Hiroshi; Tsukamoto, Masamitsu

PATENT ASSIGNEE(S): Isk Americas Incorporated, USA

SOURCE: U.S., 47 pp., Cont.-in-part of U.S. Ser. No. 947,900, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

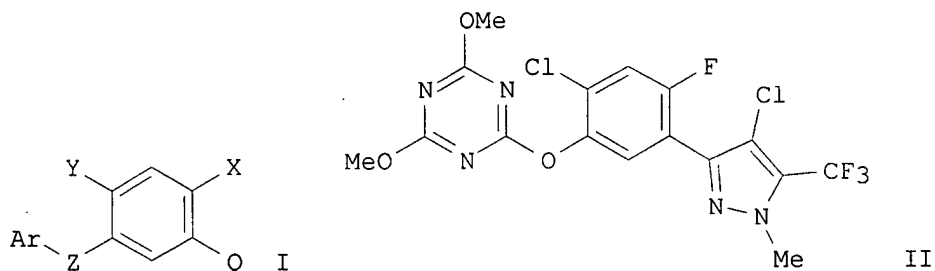
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6333296	B1	20011225	US 1999-380830	19990910
WO 9841093	A1	19980924	WO 1998-US209	19980114
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
ZA 9802158	A	19980914	ZA 1998-2158	19980313
US 2002161224	A1	20021031	US 2001-779674	20010209
US 6479435	B2	20021112		

PRIORITY APPLN. INFO.:

US 1997-818061	B2	19970314
US 1997-917682	B2	19970826
US 1997-947900	B2	19971009
WO 1998-US209	W	19980114
US 1999-380830	A3	19990910

OTHER SOURCE(S): MARPAT 136:53758

GI



AB The diaryl ethers I [X, Y = H, halo, CN, NO₂, haloalkyl; Z = O, S; Q = (un)substituted N-contg. heterocyclyl; Ar = (un)substituted aryl or heteroaryl] were prepd. as herbicides and desiccants. Thus, reacting 4-chloro-3-(4-chloro-2-fluoro-5-hydroxyphenyl)-1-methyl-5-trifluoromethyl-1H-pyrazole with 2-chloro-4,6-dimethoxytriazine in the presence of K₂CO₃ in DMF afforded 82% II which showed complete damage of *Amaranthus retroflexus*, *Chenopodium album* and *Setaria viridis* at 500 g ai/ha in pre-emergence test.

IT 213676-33-6P 213676-37-0P 213676-39-2P
213676-40-5P 213676-42-7P 213676-44-9P
213676-45-0P 213676-46-1P 213676-47-2P
213676-48-3P 213676-49-4P 213676-50-7P
213676-51-8P 213676-52-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate in prepn. of diaryl ethers herbicides and desiccants)

IT 213675-66-2 213675-67-3 213675-69-5
213675-70-8 213675-71-9 213675-73-1
213675-76-4 213675-77-5

RL: AGR (Agricultural use); BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study); USES (Uses)
(prepn. as herbicide and desiccant)

REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:932505 .HCAPLUS

DOCUMENT NUMBER: 136:53757

TITLE: Preparation of uracils and their use as herbicides

INVENTOR(S): Goto, Tomohiko; Sanemitsu, Yuzuru

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 98 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

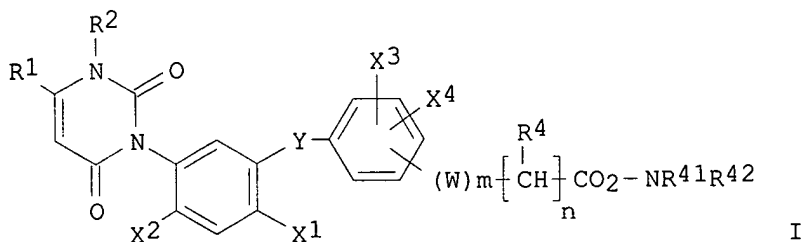
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001354661	A2	20011225	JP 2000-181150	20000616
PRIORITY APPLN. INFO.:			JP 2000-181150	20000616
OTHER SOURCE(S):	MARPAT 136:53757			

GI



AB Uracils I [W, Y = O, S, imino, C1-3 alkylimino; R1 = C1-3 (halo)alkyl; R2 = C1-3 alkyl; R4 = H, C1-3 alkyl; X1 = halo, cyano, NO2; X2 = H, halo; X3, X4 = H, halo, C1-6 (halo)alkyl, C3-6 (halo)alkenyl, C3-6 (halo)alkynyl, cyano, etc.; m = 0, 1; n = 0-2; R41, R42 = H, C1-6 (halo)alkyl, cyano-C1-6-alkyl, (un)substituted phenoxy-carbonyl-C1-6 alkyl, (un)substituted benzyloxy-carbonyl-C1-6 alkyl, etc.] are prep'd. Thus, 2-[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetic acid was refluxed with SOCl₂ for 2 h 10 min, concd., and reacted with N,N-dimethylhydroxylamine HCl salt at room temp. for 2 h in the presence of pyridine in THF to give the corresponding dimethylamino ester, which showed 100% herbicidal activity.

IT **382595-63-3P 382595-64-4P**

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of uracils as herbicides)

IT **344419-93-8P**, 2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenol
344419-95-0P, Methyl 2-[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]propionate **344419-98-3P**, Methyl [2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetate **344420-02-6P**
344420-46-8P, [[2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]methyl]benzene **380500-93-6P**, 2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]nitrobenzene **380500-94-7P**, 2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]aniline

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of uracils as herbicides)

IT **344420-00-4P**, 2-[2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]propionic acid **380500-95-8P**
380922-42-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of uracils as herbicides)

L12 ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:910259 HCAPLUS

DOCUMENT NUMBER: 136:53754

TITLE: Preparation and application of uracils as herbicides

INVENTOR(S): Goto, Tomohiko; Sanemitsu, Minoru

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

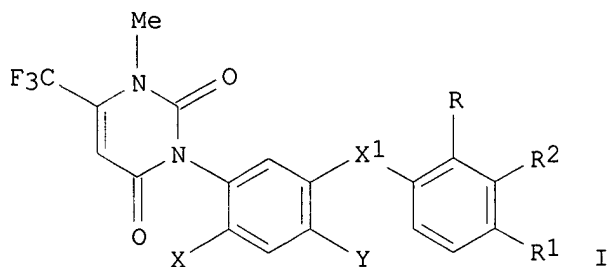
SOURCE: Jpn. Kokai Tokkyo Koho, 91 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001348376	A2	20011218	JP 2000-170234	20000607
PRIORITY APPLN. INFO.:			JP 2000-170234	20000607
OTHER SOURCE(S):		MARPAT 136:53754		
GI				



AB Title compds. [I; R = OCH(CH₃)COOCH₂COOCH₃, (S)-OCH₂CONHCH(CH₂CH(CH₃)₂)CO₂CH₃, OCH₂CONHCH₂CO₂CH₃, OCH₂CO₂CH₂CO₂CH₃, OCH₂CO₂C(CH₃)₂CO₂CH₂CH:CH₂, H, CF₃, CH₃; R₁ = H, OCH(CH₃)CO₂CH₂COOH, OCH₂COOCH₂COOCH₂CH:CH₂, H; R₂ = H, OCH(CH₃)CO₂CH₂COOH, OCH₂COOCH₂CO₂CH₂CH₃; X = F, H; Y = Cl, NO₂; X₁ = O, S, NH] are prepd. as herbicides. Thus, the title compd. I (R = OCH₂COOC(CH₃)₂COOCH₂CH₂CH:CH₂; R₁ = H; R₂ = H; X = F; X₁ = O; Y = Cl) was prepd. and field tested as effective herbicide in forage and soil treatment.

IT 380500-87-8P 380500-88-9P 380500-89-0P
 380500-90-3P 380500-96-9P 380500-97-0P
 380500-98-1P 380501-01-9P 380501-02-0P
 380501-03-1P 380501-04-2P 380501-05-3P
 380501-06-4P 380501-07-5P 380501-08-6P
 380501-09-7P 380501-10-0P 380501-11-1P
 380501-12-2P 380501-13-3P 380501-14-4P
 380501-17-7P 380501-18-8P 380501-19-9P
 380501-20-2P 380501-21-3P 380501-22-4P
 380501-23-5P 380501-24-6P 380501-25-7P
 380501-26-8P 380501-29-1P 380501-30-4P
 380501-31-5P 380501-32-6P 380501-33-7P
 380501-34-8P 380501-35-9P 380501-36-0P
 380501-37-1P 380501-38-2P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. and application of uracils as herbicides)

IT 344419-93-8P 344419-95-0P 344419-98-3P
 344420-00-4P 344420-02-6P 344420-46-8P
 380500-93-6P 380500-94-7P 380500-95-8P
 380922-42-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and application of uracils as herbicides)

L12 ANSWER 11 OF 16 HCAPLUS COPYRIGHT 2003 ACS

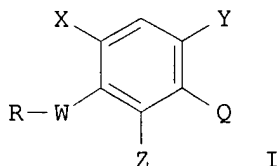
ACCESSION NUMBER: 2001:833482 HCAPLUS

DOCUMENT NUMBER: 135:354176

TITLE: Synergistic herbicidal or plant growth regulatory

INVENTOR(S): compositions
Schussler, Jeffrey R.; Crosby, Kevin E.; Backus,
Patricia A.; Tsukamoto, Masamitsu
PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001085907	A2	20011115	WO 2001-US10810	20010417
WO 2001085907	A3	20020510		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001056978	A5	20011120	AU 2001-56978	20010417
PRIORITY APPLN. INFO.:			US 2000-568507	A2 20000511
			WO 2001-US10810	W 20010417
OTHER SOURCE(S):		MARPAT 135:354176		
GI				



AB The invention provides synergistic herbicidal or plant growth regulatory compns. comprising ae substituted benzene deriv. I [X = halo or nitro; Y = H or halo; W = O, S or NH; R = alkyl, (un)substituted aryl or heteroaryl; Q = heterocyclyl; Z = H, (un)substituted alkyl or amino] and a herbicide selected from aryloxyalkanoic acids, arom. carboxylic acids, ureas, triazines, anilides, hydroxybenzonitriles, quaternary ammonium salts, di-Ph ethers, triketones, aryloxyphenoxypropionic acids, oximes, sulfonylureas, imidazolinones, dinitroanilines, chloroacetanilides, oxyacetamides, thiocarbamates, isoxazolidinones, quinoline carboxylic acids, isoxazoles, semicarbazones, chlorates and thiadiazoles, or at least one plant growth regulatory compd. selected from org. phosphorous compds., urea compds., tetraoxides and tetraoxosulfates. The compns. are also defoliants and desiccants.

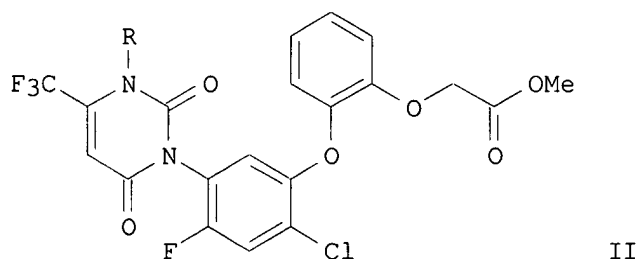
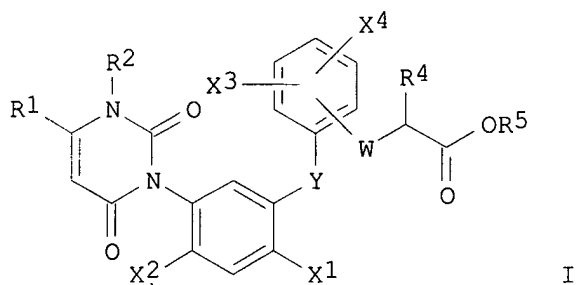
IT 372186-15-7 372186-16-8 372186-17-9
372186-18-0 372186-19-1 372186-20-4
372186-21-5 372186-22-6 372186-24-8
372186-25-9 372186-26-0 372186-27-1
372186-40-8 372186-41-9 372186-42-0
372186-43-1 372186-44-2

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic herbicidal or plant growth regulatory compn.)

L12 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:432884 HCAPLUS
 DOCUMENT NUMBER: 135:46191
 TITLE: Preparation of uracil derivatives as herbicides
 INVENTOR(S): Tohyama, Yoshitomo; Senemitsu, Yuzuru; Gotou, Tomohiko
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
 SOURCE: Eur. Pat. Appl., 108 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1106607	A2	20010613	EP 2000-126429	20001205
EP 1106607	A3	20010718		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002053560	A2	20020219	JP 2000-366722	20001201
US 2002013466	A1	20020131	US 2000-729312	20001205
US 6451740	B2	20020917		
BR 2000007890	A	20020226	BR 2000-7890	20001205
CN 1303852	A	20010718	CN 2000-137297	20001207
PRIORITY APPLN. INFO.:			JP 1999-348025	A 19991207
			JP 2000-165751	A 20000602
OTHER SOURCE(S):		MARPAT 135:46191		
GI				



AB Title compds. (I) [wherein W and Y = independently O, S, NH, or alkylimino; R1 = (halo)alkyl; R2 = alkyl; R4 = H or Me; R5 = (halo)alkyl, (halo)alkenyl, or (halo)alkynyl; X1 = H, CN, or NO2; X2 = H or halo; X3 and X4 = independently H, halo, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, alkoxyalkyl, (halo)alkoxy, alkoxycarbonyl, or CN] where prepd. as herbicides. For example, methylation of II (R = H) using MeI in the presence of K2CO3 in DMF afforded II (R = Me), which showed complete

control over Johnson grass, barnyard grass, large crabgrass, broadleaf signalgrass, and wild oat at 3.3 g/ha.

IT 213675-73-1 344420-78-6 344420-79-7

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(comparison compd.; prepn. of uracil derivs. as herbicides)

IT 344419-85-8P 344419-88-1P 344419-93-8P,

2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenol 344420-00-4P,

2-[2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]propionic acid

344420-02-6P, [2-[2-Chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetic acid 344420-09-3P 344420-34-4P 344420-38-8P

344420-46-8P 344420-73-1P 344420-75-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prepn. of uracil derivs. as herbicides)

IT 344419-95-0P, Methyl 2-[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]propionate 344419-98-3P, Methyl

[2-[2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-1,2,3,6-tetrahydropyrimidin-1-yl]phenoxy]phenoxy]acetate 344420-11-7P

344420-28-6P

RL: AGR (Agricultural use); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of uracil derivs. as herbicides)

IT 344419-86-9P 344419-90-5P 344419-97-2P

344419-99-4P 344420-01-5P 344420-04-8P

344420-05-9P 344420-07-1P 344420-12-8P

344420-13-9P 344420-16-2P 344420-18-4P

344420-19-5P 344420-27-5P 344420-29-7P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of uracil derivs. as herbicides)

IT 344420-17-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; prepn. of uracil derivs. as herbicides)

L12 ANSWER 13 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:359970 HCAPLUS

DOCUMENT NUMBER: 134:366885

TITLE: Preparation of phenyluracils as herbicides

INVENTOR(S): Andree, Roland; Schwarz, Hans-Georg; Drewes, Mark
Wilhelm; Feucht, Dieter; Pontzen, Rolf; Wetcholowsky,
Ingo

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001034575	A1	20010517	WO 2000-EP10768	20001031
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,				
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,				
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,				
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

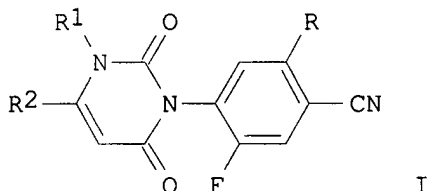
DE 19954312 A1 20010517 DE 1999-19954312 19991111
 BR 2000015483 A 20020716 BR 2000-15483 20001031
 EP 1242387 A1 20020925 EP 2000-971405 20001031

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL

PRIORITY APPLN. INFO.: DE 1999-19954312 A 19991111
 WO 2000-EP10768 W 20001031

OTHER SOURCE(S): MARPAT 134:366885

GI



AB Title compds. [I; R = (un)substituted OPh; R1 = H, NH2, (un)substituted alkyl; R2 = CO2H, cyano, CONH2, (un)substituted alkyl, etc.] were prepd. as herbicides (no data). Thus, I (R1 = H, R2 = CF3) (II; R = F) was etherified by 4-(MeO)C6H4OH to give II [R = OC6H4(OMe)-4].

IT 253435-69-7P 253435-70-0P 253435-89-1P
 339536-63-9P 339536-64-0P 339536-65-1P
 339536-66-2P 339536-67-3P 339536-89-9P
 339536-90-2P 339536-91-3P 339536-92-4P
 339536-93-5P 339536-94-6P 339536-95-7P
 339536-96-8P 339536-97-9P 339536-98-0P
 339536-99-1P 339537-00-7P 339537-01-8P
 339537-02-9P 339537-03-0P 339537-04-1P
 339537-05-2P 339537-06-3P 339537-07-4P
 339537-08-5P 339537-09-6P 339537-10-9P
 339537-11-0P 339537-12-1P 339537-13-2P
 339537-16-5P 339537-17-6P 339537-18-7P
 339537-21-2P 339537-24-5P 339537-25-6P
 339537-26-7P 339537-28-9P

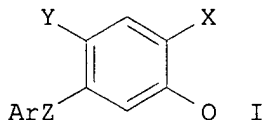
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of phenyluracils as herbicides)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 14 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:658481 HCAPLUS
 DOCUMENT NUMBER: 133:238025
 TITLE: Preparation of azinyl phenyl ethers as herbicides and plant desiccants.
 INVENTOR(S): Pulman, David A.; Ying, Bai-Ping; Wu, Shao-Yong; Gupta, Sandeep; Tsukamoto, Masamitsu; Haga, Takahiro
 PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan
 SOURCE: U.S., 47 pp., Cont.-in-part of U.S. Ser. No. 151,306.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6121201	A	20000919	US 1998-159233	19980923
US 6303543	B1	20011016	US 2000-570911	20000515
PRIORITY APPLN. INFO.:			US 1998-151306	A2 19980911
			US 1998-159233	A3 19980923
OTHER SOURCE(S):		MARPAT 133:238025		
GI				



AB Title compds. [I; X, Y = H, halo, cyano, NO₂, haloalkyl; Z = O, S; Q = (substituted) pyrazolyl, imidazolyl, triazolyl, tetrazolyl, pyridazinyl, etc.; Ar = (substituted) aryl, heteroaryl], were prepd. Thus, 4-chloro-3-(4-chloro-2-fluoro-5-hydroxyphenyl)-1-methyl-5-trifluoromethyl-1H-pyrazole, 2-chloro-4,6-dimethoxytriazine, and K₂CO₃ were stirred 2 h in DMF at 90.degree. to give 81.6% 4-chloro-3-[4-chloro-2-fluoro-5-(4,6-dimethoxy-2-triazinyloxy)phenyl]-1-methyl-5-trifluoromethyl-1H-pyrazole. Numerous I at 125-500 g/ha preemergent gave 100% control of *Amaranthus retroflexus*, *Abutilon theophrasti*, etc.

IT 213675-66-2P 213675-67-3P 213675-69-5P
 213675-70-8P 213675-71-9P 213675-73-1P
 213675-76-4P 213675-77-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of azinyl Ph ethers as herbicides and plant desiccants)

IT 213676-33-6P 213676-37-0P 213676-39-2P
 213676-40-5P 213676-42-7P 213676-44-9P
 213676-45-0P 213676-46-1P 213676-47-2P
 213676-48-3P 213676-49-4P 213676-50-7P
 213676-51-8P 213676-52-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. of azinyl Ph ethers as herbicides and plant desiccants)

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 15 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:33546 HCAPLUS

DOCUMENT NUMBER: 132:64270

TITLE: Preparation of aryloxyaryluracils as herbicides.

INVENTOR(S): Andree, Roland; Schwarz, Hans-Georg; Drewes, Mark
 Wilhelm; Feucht, Dieter; Pontzen, Rolf; Wetcholowsky,
 Ingo

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 34 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 19853864	A1	20000113	DE 1998-19853864	19981123
CA 2336762	AA	20000120	CA 1999-2336762	19990702
WO 2000002866	A1	20000120	WO 1999-EP4585	19990702

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

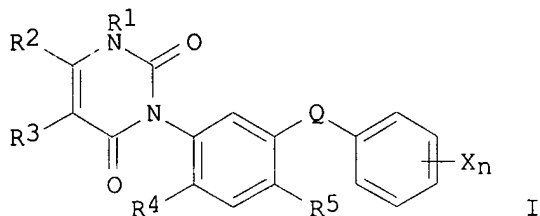
AU 9950299	A1	20000201	AU 1999-50299	19990702
AU 750045	B2	20020711		
BR 9911978	A	20010327	BR 1999-11978	19990702
EP 1095027	A1	20010502	EP 1999-934556	19990702

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

JP 2002520319	T2	20020709	JP 2000-559097	19990702
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PRIORITY APPLN. INFO.: DE 1998-19830693 A1 19980709
DE 1998-19853864 A 19981123
WO 1999-EP4585 W 19990702

OTHER SOURCE(S): MARPAT 132:64270
GI



AB Title compds. [I; n = 0-5; Q = O, S, SO, SO₂, NH, alkylimino; R₁ = H, amino, (substituted) alkyl; R₂ = CO₂H, cyano, carbamoyl, thiocarbamoyl, (substituted) alkyl, alkoxycarbonyl; R₃ = H, halo, (substituted) alkyl; R₄ = H, cyano, carbamoyl, thiocarbamoyl, halo; R₅ = cyano, carbamoyl, thiocarbamoyl, halo, (substituted) alkyl, alkoxy; X = OH, SH, amino, NO₂, cyano, CO₂H, carbamoyl, thiocarbamoyl, halo, (substituted) alkyl, alkoxy, alkylthio, etc.], were prep'd. as herbicides (no data). Thus, 4-methoxyphenol was stirred 30 min. with NaH in Me₂SO; 4-(3,6-dihydro-2,6-dioxo-4-trifluoromethyl-1(2H)pyrimidin-1-yl)-2,5-difluorobenzonitrile was added followed by 18 h stirring at 60.degree. to give 21% 4-(3,6-dihydro-2,6-dioxo-4-trifluoromethyl-1(2H)-pyrimidin-1-yl)-5-fluoro-2-(4-methoxyphenoxy)benzonitrile. Two I were said to show strong herbicidal activity.

IT 253435-69-7P 253435-70-0P 253435-71-1P
253435-72-2P 253435-73-3P 253435-74-4P
253435-75-5P 253435-76-6P 253435-77-7P
253435-78-8P 253435-79-9P 253435-81-3P
253435-82-4P 253435-83-5P 253435-84-6P
253435-85-7P 253435-86-8P 253435-87-9P
253435-88-0P 253435-89-1P 253435-90-4P
253435-91-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of aryloxyaryluracils as herbicides)

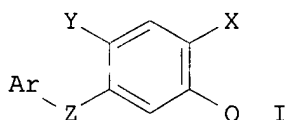
L12 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:635622 HCAPLUS
 DOCUMENT NUMBER: 129:256468
 TITLE: Preparation of diaryl ethers as herbicides and desiccants
 INVENTOR(S): Pulman, David A.; Ying, Bai-ping; Wu, Shao-yong; Gupta, Sandeep; Shimoharada, Hiroshi; Tsukamoto, Masamitsu
 PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha Americas, Inc., USA
 SOURCE: PCT Int. Appl., 130 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9841093	A1	19980924	WO 1998-US209	19980114
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9858161	A1	19981012	AU 1998-58161	19980114
AU 737360	B2	20010816		
EP 973395	A1	20000126	EP 1998-901704	19980114
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, RO			
BR 9808334	A	20000516	BR 1998-8334	19980114
JP 2001519783	T2	20011023	JP 1998-540479	19980114
RU 2180336	C2	20020310	RU 1999-122033	19980114
ZA 9802158	A	19980914	ZA 1998-2158	19980313
US 6333296	B1	20011225	US 1999-380830	19990910
US 2002161224	A1	20021031	US 2001-779674	20010209
US 6479435	B2	20021112		

PRIORITY APPLN. INFO.:
 US 1997-818061 A2 19970314
 US 1997-917682 A2 19970826
 US 1997-947900 A2 19971009
 WO 1998-US209 W 19980114
 US 1999-380830 A3 19990910

OTHER SOURCE(S): MARPAT 129:256468
 GI



AB The diaryl ethers I [X, Y = H, halo, cyano, nitro or Cl-6 haloalkyl; Z = O or S; Q = (un)substituted N-contg. heterocyclyl; Ar = (un)substituted aryl or heterocyclyl] are prep'd. as herbicides and desiccants.
 IT 213676-33-6P 213676-37-0P 213676-39-2P

213676-40-5P 213676-42-7P 213676-44-9P
 213676-45-0P 213676-46-1P 213676-47-2P
 213676-48-3P 213676-49-4P 213676-50-7P
 213676-51-8P 213676-52-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(intermediate in prepn. of diaryl ethers herbicides and desiccants)

IT 213675-66-2P 213675-67-3P 213675-69-5P
 213675-70-8P 213675-71-9P 213675-73-1P
 213675-76-4P 213675-77-5P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological
 study); PREP (Preparation); USES (Uses)

(prepn. as herbicide and desiccant)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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